

REMARKS

Claims:

Claims 5-7, 12-14, 19-21 and 25-27 comprise the case, and Claims 1-4, 8-11, 15-18 and 22-24 have been canceled.

I) 35 U.S.C. 102:

The rejection of Claims 1-4, 8-11, 15-18 and 22-24 has been rendered moot by the cancellation thereof.

I) 35 U.S.C. 103:

Claims 5-7, 12-14, 19-21 and 25-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Molstad et al. (USPN 6,542,315).

The Examiner states "Molstad et al is silent on the capability of writing different number of transitions in the servo patterns. However, it would be obvious \*\*\* to be able to write a different number of the transitions in the servo patterns \*\*\*." The Examiner cited various portions of Molstad et al., saying "Molstad et al describes how the servo patterns are produced and how many of the transitions pattern lines within the pattern could be programmatically written."

However, Molstad et al. is always discussing repeating of a same pattern. For example, in FIG. 6B, Molstad et al. shows a pattern repeated 4 times in each instance, such as  $T_0 - T_4$ ,  $T_5 - T_9$ , etc.

Applicants respectfully submit that Molstad et al. does not show or suggest any of the alternatives claimed by Applicants.

In a first example, Applicants' Claims 5, 12, 19 and 25 relate to, e.g., Claim 5, "A servo writer \*\*\* comprising:

"at least three spaced apart write elements \*\*\*;

"a drive \*\*\*; and

"a source of timed pulses \*\*\*;

"wherein at least one said write element of said different azimuthal orientation is located intermediate said two write elements of parallel azimuthal orientation; and wherein said source of timed pulses additionally spaces said sets of pulses such that, in said repeating cyclic periodic sequence of transitions, said transitions having parallel azimuthal orientation at one end of one pattern continue with said transitions having parallel azimuthal orientation at the opposite end of the next pattern, such that said continuing transitions having parallel azimuthal orientation of said one pattern and said next pattern are combined to have a different number of transitions than the remainder of said repeating cyclic periodic sequence of transitions, thereby providing synchronization of said repeating cyclic periodic sequence of transitions."

(Emphasis added).

In a second example, Applicants' Claims 6, 13, 20 and 26 relate to, e.g., Claim 6, "A servo writer \*\*\* comprising:

"at least three spaced apart write elements \*\*\*;

"a drive \*\*\*; and

"a source of timed pulses \*\*\*;

comprising an even number of said write elements, and wherein said source of timed pulses provides a different number of said pulses for alternating said sets of pulses provided to said write elements, whereby said sets of pulses write alternating said patterns with different numbers of said transitions, thereby providing synchronization of said repeating cyclic periodic sequence of transitions. (Emphasis added).

In a third example, Applicants' Claims 7, 14, 21 and 27 relate to, e.g., Claim 7, "A servo writer \*\*\* comprising:

"at least three spaced apart write elements \*\*\*;

"a drive \*\*\*; and

"a source of timed pulses \*\*\*;


"wherein said source of timed pulses is coupled to at least two adjacent said write elements and separately coupled to other said write elements, said source of timed pulses providing first timed pulses to all of said spaced apart write elements to simultaneously write to fix said distances between said transitions, and additionally providing at least one second timed pulse to less than all and at least said two adjacent write elements to provide a different number of said pulses for said at least two adjacent write elements to thereby write different numbers of said transitions within said pattern, thereby providing synchronization of said repeating cyclic periodic sequence of transitions." (Emphasis added).

As the result, Applicants respectfully submit that Molstad et al. is always discussing repeating of a same pattern, and that Applicants' Claims 5-7, 12-14, 19-21 and 25-27 instead relate to various alternatives for providing different numbers of transitions within various patterns of sequences of transitions, thereby providing synchronization of repeating cyclic periodic sequences of transitions.

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Hence, Applicants respectfully submit that Claims 5-7, 12-14, 19-21 and 25-27 patentably define over Molstad et al. under 35 U.S.C. 103(a), and respectfully request allowance thereover.

Respectfully submitted,  
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